

0073816

SAF-RC-006
100-N Ancillary Facilities & 190-DR
Other Solid Sampling for ERDF Waste
Designation
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Dave Encke X5-50

KW 8/27/2007
INITIAL/DATE

Amy Hood X5-50

KW 8/27/2007
INITIAL/DATE

Tom Edmundson X5-50

KW 8/27/2007
INITIAL/DATE

COMMENTS:

SDG 07-A-4711

SAF-RC-006

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

Waste Site(s): MO-766/MO-390 Potential Asbestos

RECEIVED
SEP 04 2007
EDMC



8/24/07
Page 1 of 4

SUBMITTED TO:

Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354

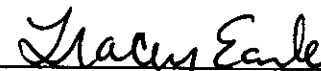


REFERENCE DATA:

Client Sample No.:	J15HF4 through J15HH3
P.O. No.:	Not Available
Sample Location:	MO-766/MO-390 Potential Asbestos
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4711
DCL Sample ID No.:	07-27158 through 07-27167
Sample Receipt Date:	8/23/07
Analysis Date:	8/24/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


for Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

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CINCINNATI, OHIO 45242-3708
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

8/24/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: MO-766/MO-390 Potential Asbestos
Set ID: 07-A-4711

Client Sample ID:	J15HF4	J15HF5	J15HF6	J15HF7	J15HF8
DCL Sample ID:	07-27158	07-27159	07-27160	07-27161	07-27162
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
	Inseparable	Inseparable	Inseparable	Inseparable	Inseparable
Color:	Grey/Tan	Grey/Tan	Grey/Tan	Grey	Grey
Texture:	Flex/Fbrs/Resns	Flex/Fbrs/Resns	Flex/Fbrs/Resns	Flex/Fbrs	Flex/Fbrs
Description:	Linoleum	Linoleum	Linoleum	Linoleum	Linoleum
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30
% Resin/Binder:	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	>5 ≤ 10	>5 ≤ 10
% Non Fibrous:	>40 ≤ 50	>40 ≤ 50	>40 ≤ 50	>50 ≤ 60	>50 ≤ 60

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

8/24/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: MO-766/MO-390 Potential Asbestos
Set ID: 07-A-4711

Client Sample ID:	J15HF9	J15HH0	J15HH1	J15HH2	J15HH3
DCL Sample ID:	07-27163	07-27164	07-27165	07-27166	07-27167A
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered Inseparable	Homog.	Homog.	Homog.	Layered
Color:	Grey	Tan	Tan	Tan	Brown
Texture:	Flex/Fbrs	Fibrous	Fibrous	Fibrous	Flexible
Description:	Linoleum	Ceiling Tile	Ceiling Tile	Ceiling Tile	Covebase
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:		>80 ≤ 90	>80 ≤ 90	>80 ≤ 90	
% Fiberglass:					
% Other Fibers:	>20 ≤ 30				
% Resin/Binder:	>5 ≤ 10				>20 ≤ 30
% Non Fibrous:	>50 ≤ 60	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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Microscopist

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8/24/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: MO-766/MO-390 Potential Asbestos
Set ID: 07-A-4711

Client Sample ID: J15HH3
DCL Sample ID: 07-27167B

Macroscopic Examination

Accepted/Rejected: Accepted
Homogeneity: Layered
Color: Grey
Texture: Flexible
Description: Mastic
Analysis: PLM

Asbestiform Minerals

% Chrysotile:
% Amosite:
% Crocidolite:
% Tremolite - Actinolite:
% Anthophyllite:
% Total Asbestos: ND

Other Materials


% Cellulose:
% Fiberglass:
% Other Fibers:

% Resin/Binder: >60 ≤ 70
% Non Fibrous: >20 ≤ 30

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-145		Page 1 of 2	
Collector Amy Hood/Tom Edmundson		Company Contact J. Crocker		Telephone No. 376-4058		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location MO-766/MO-390 Potential Asbestos		SAF No. RC-006		Days JRE 8-21-07 1 Day			
Ice Chest No. FED EX BOX		Field Logbook No. EL-1516-11		COA RD4MXX2F00		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. 1070305		Bill of Lading/Air Bill No. SEE OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS N/A		Preservation		None					
Special Handling and/or Storage N/A		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
		Asbestos-BULK-EPA							
SAMPLE ANALYSIS 07-A-4711									
Sample No.	Matrix *	Sample Date	Sample Time						
J15HF4 27158	OTHER SOLID	8-21-07	1502	✓					
J15HF5 27159	OTHER SOLID	8-21-07	1504	✓					
J15HF6 27160	OTHER SOLID	8-21-07	1508	✓					
J15HF7 27161	OTHER SOLID	8-21-07	1510	✓					
J15HF8 27162	OTHER SOLID	8-21-07	1512	✓					
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS					
Relinquished By/Removed From JRE Edmundson		Date/Time 8-21-07 1630		Received By/Stored In 3728 K 3A		Date/Time 8-21-07 1630		Potential ACM	
Relinquished By/Removed From 3728 K 3A		Date/Time 8-22-07 0830		Received By/Stored In JRE Edmundson		Date/Time 8-22-07 0830		Matrix *	
Relinquished By/Removed From JRE Edmundson		Date/Time 8-22-07 1500		Received By/Stored In FED EX		Date/Time		S=Soil SS=Soils SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Spills DL=Drum Leaks T=Trash W=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From FED EX		Date/Time		Received By/Stored In		Date/Time		RUSH	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Sampler unavailable to relinquish samples from 3728 Ref # 3A.	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		3728 Custodian removed samples for shipping on 8/22/07.	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time		8/23/07/0943	

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-145 Page 2 of 2	
Collector Amy Hood/Tom Edmundson		Company Contact J. Crocker		Telephone No. 376-4058		Project Coordinator KESSNER, JH	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location MO-766/MO-390 Potential Asbestos		SAF No. RC-006		Price Code 9K Data Turnaround 7 Days TR 8-21-07 / Day	
Ice Chest No. FED EX BOX		Field Logbook No. EL-1516-11		COA RD4MDO2F00		Method of Shipment Fed Ex	
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. 1070305		Bill of Lading/Air Bill No. SEE OSCP			
POSSIBLE SAMPLE HAZARDS/REMARKS N/A Special Handling and/or Storage N/A		Preservation		None			
		Type of Container		G/P			
		No. of Container(s)		1			
		Volume		5g			
SAMPLE ANALYSIS 4711		Asbestos-BULK-EPA					
Sample No.		Matrix *		Sample Date		Sample Time	
J15HF9 27163		OTHER SOLID		8-21-07		1517	
J15HH0 27164		OTHER SOLID		8-21-07		1525	
J15HH1 27165		OTHER SOLID		8-21-07		1527	
J15HH2 27166		OTHER SOLID		8-21-07		1529	
J15HH3 27167		OTHER SOLID		8-21-07		1520	
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS			
Relinquished By/Removed From <i>PR</i>		Date/Time 8-21-07 1630		Received By/Stored In 3728 H 3A		Date/Time 8-21-07 1630	
Relinquished By/Removed From 3728 #3A		Date/Time 8-22-07 0830		Received By/Stored In <i>MS</i>		Date/Time 8-22-07 0830	
Relinquished By/Removed From <i>MS</i>		Date/Time 8-22-07 1500		Received By/Stored In FED EX		Date/Time	
Relinquished By/Removed From <i>Fed Ex</i>		Date/Time		Received By/Stored In <i>MS</i>		Date/Time 8-22-07 1445	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time	
LABORATORY SECTION		Received By <i>[Signature]</i>		Title		Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By <i>[Signature]</i>		Date/Time 8/25/07/0915	